

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
30 September 2004 (30.09.2004)

PCT

(10) International Publication Number
WO 2004/084239 A1

(51) International Patent Classification⁷: H01B 1/24 (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number: PCT/KR2004/000627

(22) International Filing Date: 22 March 2004 (22.03.2004)

(25) Filing Language: Korean

(26) Publication Language: English (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(30) Priority Data:
10-2003-0017904 21 March 2003 (21.03.2003) KR

(71) Applicant and
(72) Inventor: SUH, Kwang Suck [KR/KR]; 119-1001 Parktown Sunae-dong, Bundang-ku Seongnam-si, Kyungki-do 463-020 (KR).

(72) Inventor; and
(75) Inventor/Applicant (for US only): KIM, Jong Eun [KR/KR]; 105-107, Kumho Bestville Apt., Mok-2-dong, Yangchun-ku, Seoul 158-780 (KR).

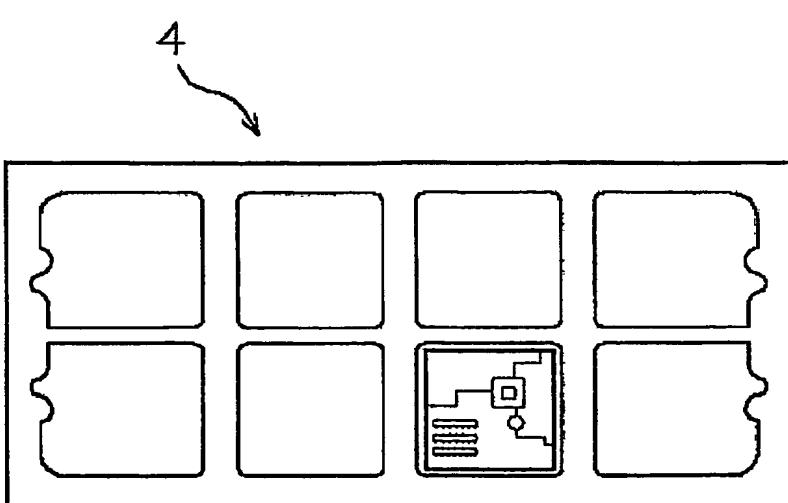
(74) Agent: PARK, Kyung-Jae; 177-10, Gahoe-dong, Chon-gro-ku, Seoul 110-260 (KR).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ALLOWANCE METHOD FOR POINT TO GROUND RESISTANCE ON TRAY



(57) Abstract: Disclosed is a method of providing a desired range of point-to-ground resistance to trays, by making a conductive pathway between both surfaces of the tray after forming and cutting processes. A desired range of point-to-ground resistance of the tray can be achieved by partially or entirely coating a conductive solution composed of a conductive polymer such as polyaniline, polypyrrole, polythiophene and derivatives such as poly 3,4- ethylenedioxythiophene and mixtures thereof, metal powders and flakes composed of iron, copper, aluminum and other metals, metal oxides such as doped tin oxide and indium oxide, onto cut surfaces of the tray, by attaching a conductive or semi-conductive tape to top and bottom surfaces of the tray so as to cross

WO 2004/084239 A1

them, or by using a metal clip. Thereby, a desired range of point-to-ground resistance can be provided to the tray by electrically connecting the top and bottom surfaces of the tray.